

Physics and Experiment Board Meeting

December 6, 2011 (1400 GMT)

Minutes (prepared by J. Brau)

Present: Ties Behnke, Jim Brau, Karsten Buesser, Marcel Demarteau, Norman Graf, Juan Fuster, Akiya Miyamoto, Yasuhiro Sugimoto, Andy White, Sakue Yamada, Hitoshi Yamamoto.

Excused: Catherine Clerc, John Jaros, Michael Peskin.

PAC Meeting

The PAC met in Prague, November 14-15. Sakue gave a general report. There were also reports on ILD (Jan Timmermans), SiD (Phil Burrows), 1 TeV beam parameter (Jim), the IDAG (Michel), and MDI (Karsten).

The draft report from the PAC made the following six points:

1. ILD options – ILD continues to keep many options alive. The PAC thinks this is not an ideal situation, but understands the reasons. They suggest ILD prepare plans for a process to reduce the options when the appropriate time comes.
2. Both detector groups should show that the baseline detectors can achieve the scientific goals of the program.
3. There is a lot of generic R&D being conducted, such as the LHC upgrade efforts. The ILC groups should monitor these efforts and look for opportunities to benefit and contribute.
4. PAC notes concern for need for a pulse powering test.
5. The committee is pleased by adoption of common push-pull by two detector groups.
6. ILC-CLIC cooperation is going well.

There were no comments on the post-2012 organization for detectors.

The next PAC meeting will be May 15-16 at Fermilab.

Future Meetings – ACFA Workshop

The 2012 ACFA Workshop will be held April 23-26 in Korea.

DBD Format Working Group

The DBD Format Working Group will soon have its first meeting (December 20). The group is composed of Ties Behnke and Yasuhiro Sugimoto for ILD, Marcel Stanitzki and Phil Burrows for SiD, and Sakue, Hitoshi, Juan, and Jim for the RD management. A latex template is being prepared. The communicators are not too experienced in working with latex, which will limit their support for the DBD.

Interim Report

The Interim Report is nearly done. Physics credits are being completed and the format for the LOI signatories is being optimized.

ILD - Ties

ILD is getting going on the outline for the DBD. There is recent progress on detector integration, particularly on the inner detector. A more realistic model is being developed, which has revealed new issues. The baseline options and their treatment for the DBD are being discussed. New tracking software is being developed.

SiD - Andy

There will be an MDI discussion Dec 12-13 before the SiD workshop. The agenda for the December 14-16 workshop at SLAC is set; a complete coverage will include R&D progress reports, DBD sections, benchmarking, HCAL depth optimization, simulation model and realistic dead material modeling.

MDI – Karsten

The MDI Common Task Group gave a report to the PAC meeting. Two meetings are contributing to progress. Yesterday and today in London the MDI and GDE CFS groups met with the contractor working on engineering studies of the underground hall and platform design. Next week at SLAC there will be a meeting preceding the SiD workshop to discuss MDI issues.

A separate issue is the design of the underground infrastructure for a Japanese site, which is unique given its “mountainous” location. Work is underway at KEK. KEK personnel will participate in the SLAC meeting next week.

Detector R&D - Marcel

The spin-off document has been completed. Discussions with communicators are considering how to make it available broadly.

An important concern is the format for R&D beyond 2012. Related is test beam availability. There may be no beams at CERN in 2012 (unless the CERN PS provides them). Can we retain the current structure after 2012 to provide framework for continued R&D?

Software – Akiya

There is a meeting at KEK this week to work on tracking.

The 1 TeV parameters will be discussed tomorrow at the AD&I meeting.

1 TeV - Jim

Nick Walker is preparing a final note with the 1 TeV parameters.

Next meeting

Sakue will send a request for availability to set a time for the next meeting.